PROMATE ELECTRONIC CO., LTD.

User's Manual

Model No.: JDBK170G3A0P

Description: 17" TFT-LCD Driving Board Kit

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Record of Revision

Version	Revise Date	Page Affected	Content
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A: General Description

Promate's JDBK170G3A0P TFT LCD Driving Board Kit is specifically designed for driving AU's 17.0" Color TFT LCD Panel. The board kit provides an easy to use interface and all accessories needed.

B: Contents

- Driving board
- LVDS cable
- OSD board
- OSD cable
- Inverter
- Inverter cable
- Audio add-on board (available as an option)
- Remote Control Kit (available as an option)

C: Applications

The product covered herein are designed and manufactured for following application areas.

- Office electronics
- Instrumentation and measuring equipment
- Machine tools
- Audiovisual equipment
- Home appliances
- Communication equipment other than trunk lines

Do not use the products covered herein for the following equipment that demands extremely high performance in terms of functionality, reliability, or accuracy.

- Aerospace equipment
- Communication equipment for trunk lines
- Medical equipment related to life support, etc.

The board is not user serviceable or repairable. Warranty does not cover user error in connecting up to the controller and is invalidated by unauthorized modification or repairs.

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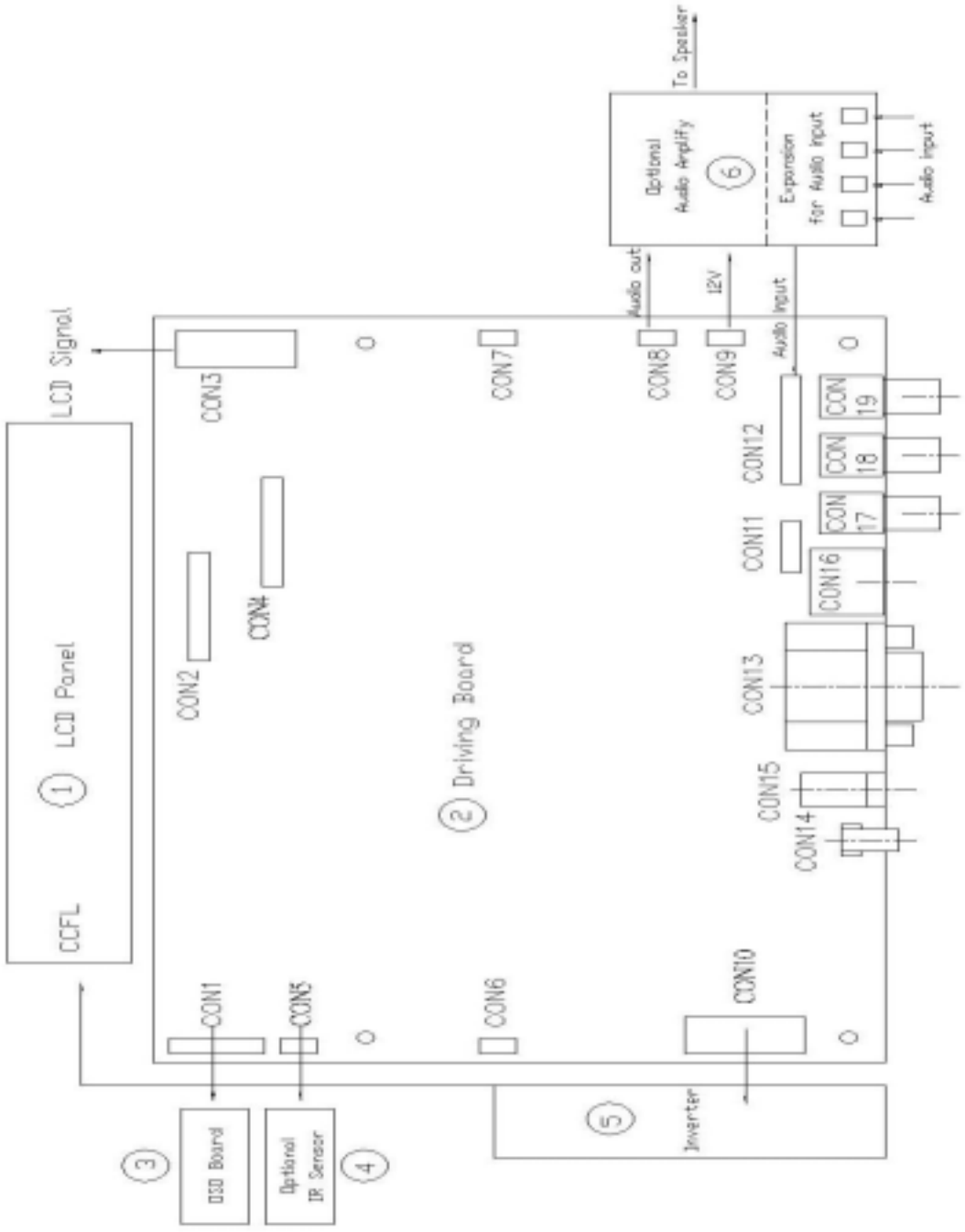
D: Connection of Board Kit



Summary

1. LCD panel
2. Driving Board
3. OSD Board
4. IR Sensor (optional)
5. Inverter
6. Audio add-on board (optional)

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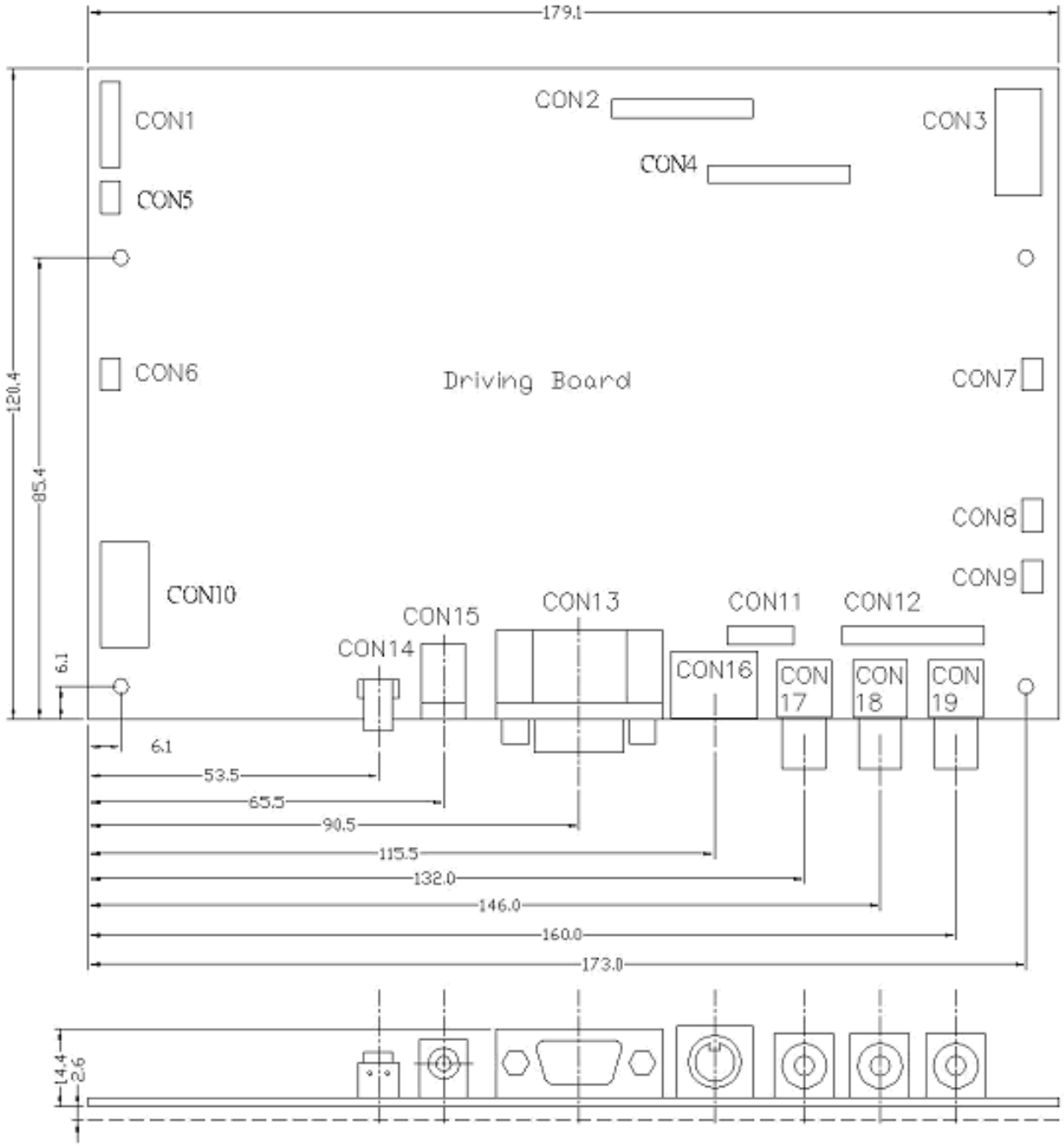
E: Driving Board, Part No. JDBV170G3A0

UMIT: mm



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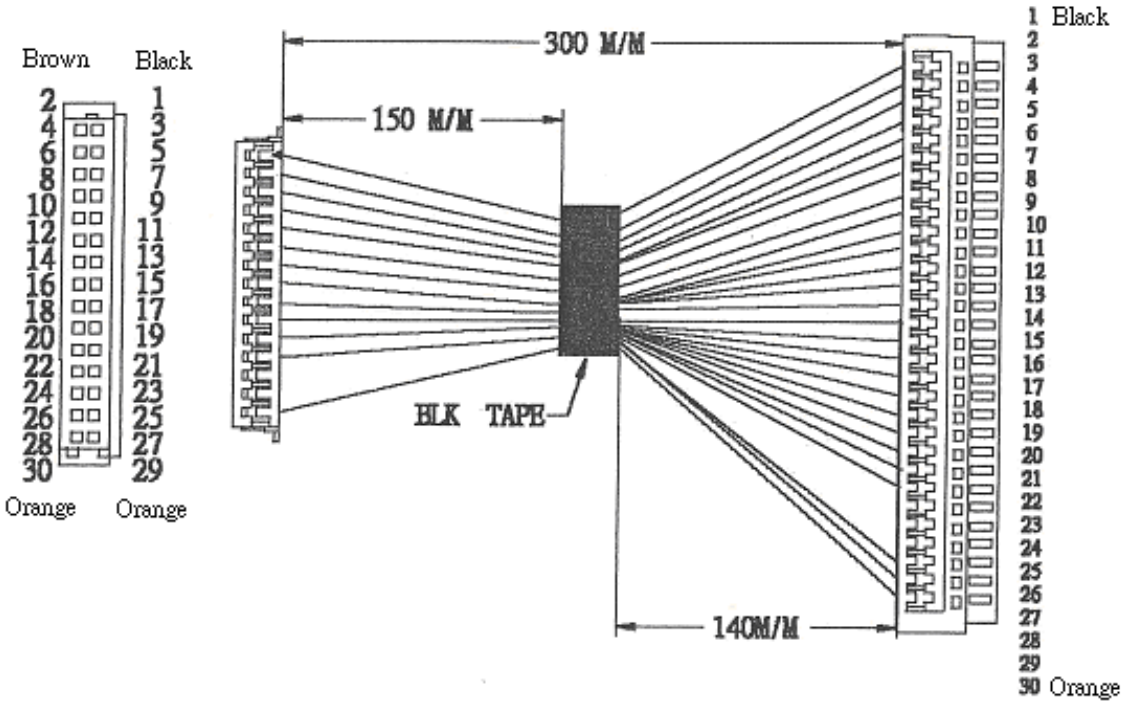
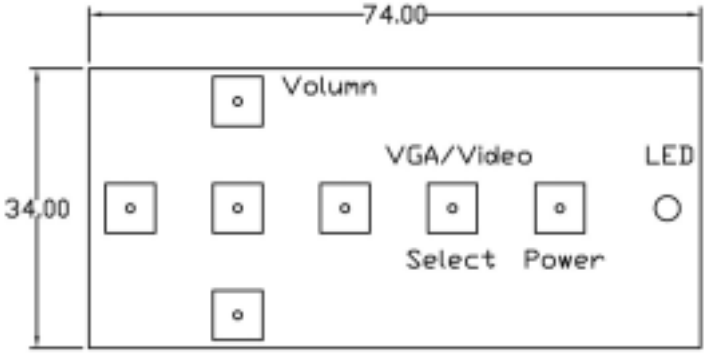
F: LVDS Cable, Part No. 94H3003080



G: OSD Board, 99PMSWB002

UNIT:mm



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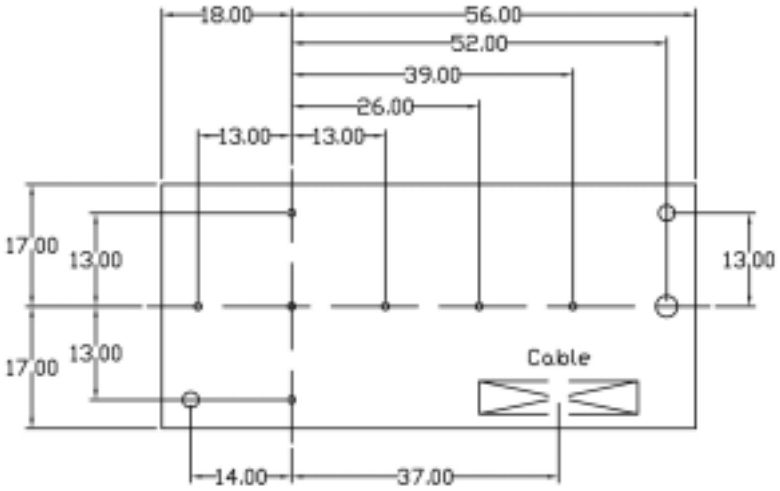
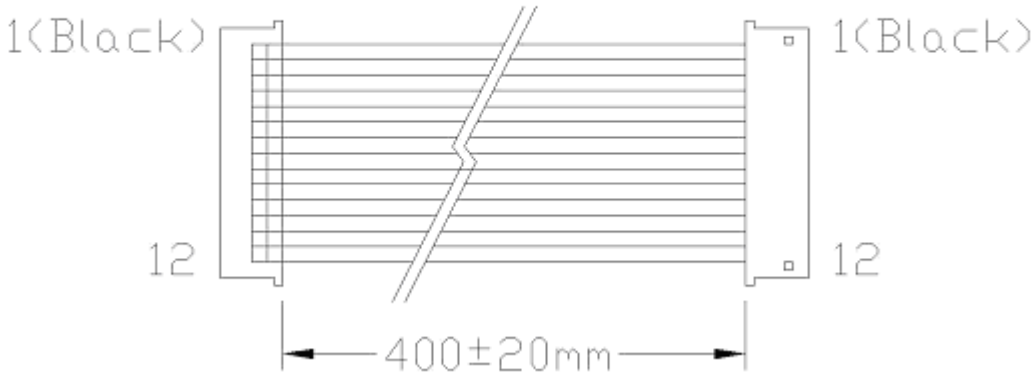


H: OSD Cable, Part No. 94H1200001

Molex 51021-1200 or Equivalent (2X)



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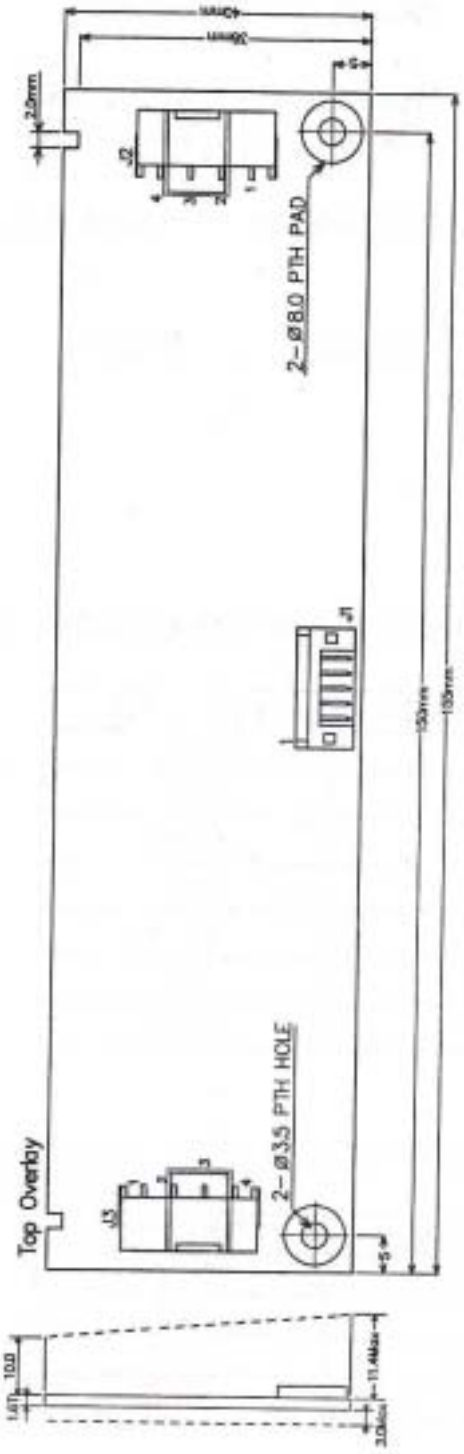
I: Inverter, Part No. 32AMPT0620

I-1, Mechanical Drawing:

UNIT: mm



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I-2, J1 (S7B-PH-SM3-TB-JST) Input

PIN	SYMBOL	Description
1	Vin	Input voltage: 12V
2	Vin	Input voltage: 12V
3	GND	GND
4	GND	GND
5	ON/OFF	ON:2.2-5V-5% OFF: 1.5V-0V+5%
6	Vbr	Back light Control
7	N.C.	No connect

I-3, J2 AND J3, (SM04(4.0)B-BHS-1-JST) Output

PIN	SYMBOL	Description
1	H.V.	High Voltage to lamps
2	H.V.	High Voltage to lamps
3	N.C.	No connect
4	Return	Low Voltage Return

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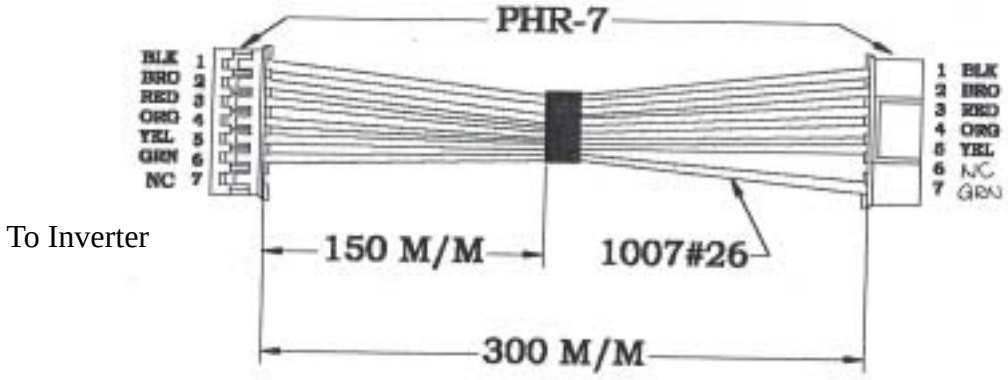
I-4, Electrical Specifications:

ITEM	SYMBOL	MIN	TYP	MAX	UNIT	REMARK
Input Voltage	Vin	10.8	12.0	13.2	V	
Input Current	Iin	-	1620	1900	mA	
Input Power	Pin	-	19.44	22.8	W	
Efficiency	Eff	-	74	-	%	
Control Terminal Input Voltage	Von/off	1.6	-	5	V	
		0	-	0.7	V	
Control Terminal Input Current	Ion/off	-	-	1	mA	
		-	-	300	μA	
Vbr Control Input Voltage	Vbr	-	0.1	-	V	
		-	3.5	-	V	
Vbr Control Input Current	Ibr	-	-	150	μA	
		-	-	500	μA	
Open Voltage	Vo	1100	-	1600	Vrms	
Working Voltage	Vw	640	-	800	Vrms	
Tube Current (Max)	IL	13.0	-	15.0	MArms	
Tube Current (Min)	IL	5.0	-	6.0	mArms	
Working Frequency	f	45	50	55	KHz	
Operation Temp.	O.T.	0		50	C	
Storage Temp.	S.T.	0		85	C	

J: Inverter Cable, Part No. 94H0703080



To Inverter

To Driving Board

K: (Optional) Audio Add-on board kit, Part No. 94J0545010

TBD

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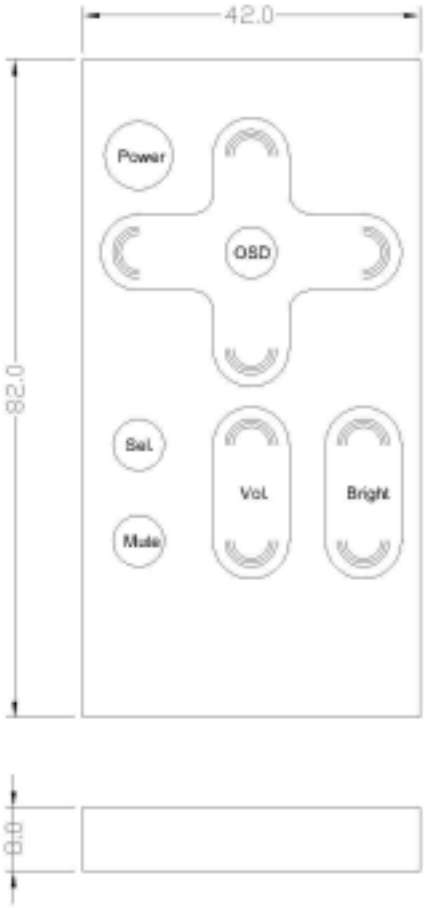
L: (Optional) Remote Control Kit, Part No. JDBAIRK01A0

L-1: Remote Controller, Part No. 96R8T01501



1. Power: ON/OFF control
2. OSD: On Screen Display Adjustment
3. Sel.: Input Channel Selection
4. Mute: Hotkey (Mute) of volume control
5. Vol.: Volume control
6. Bright: Brightness Adjustment

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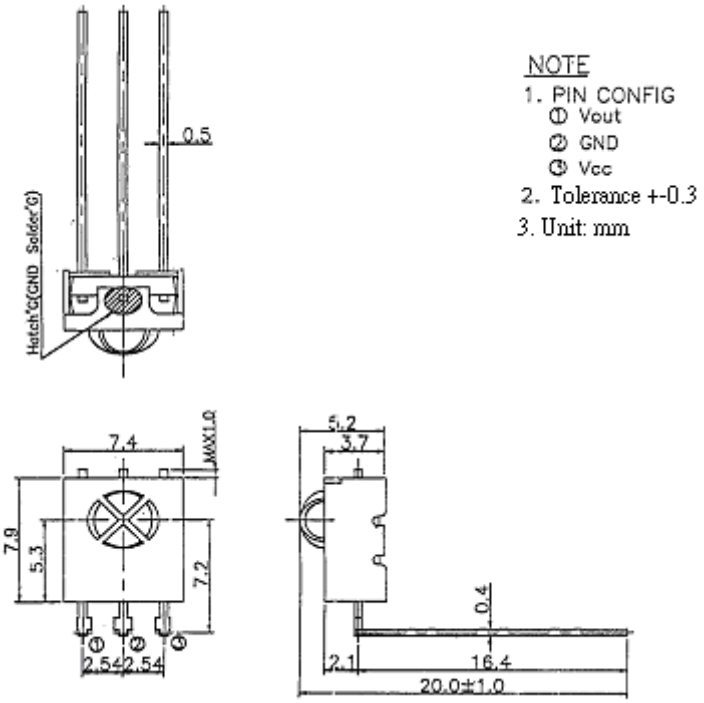
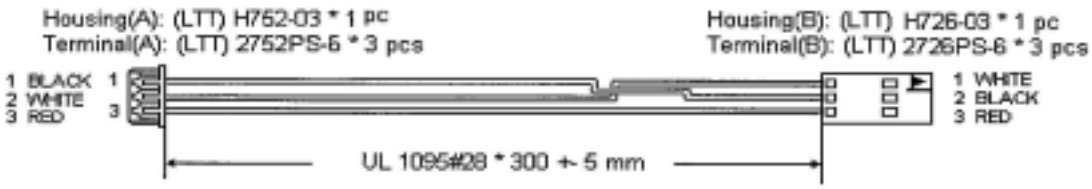
L-2: Infrared Receiver, Part No. 52I6038TM2



L-3: Cable, Part No. 94H030002

Note: Connect the Infrared Receiver to Housing (B), Pin 1 to White, Pin 2 to Black and Pin 3 to Red



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